

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527497

Luminaire Tested: **GALN-SA2C-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6870 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

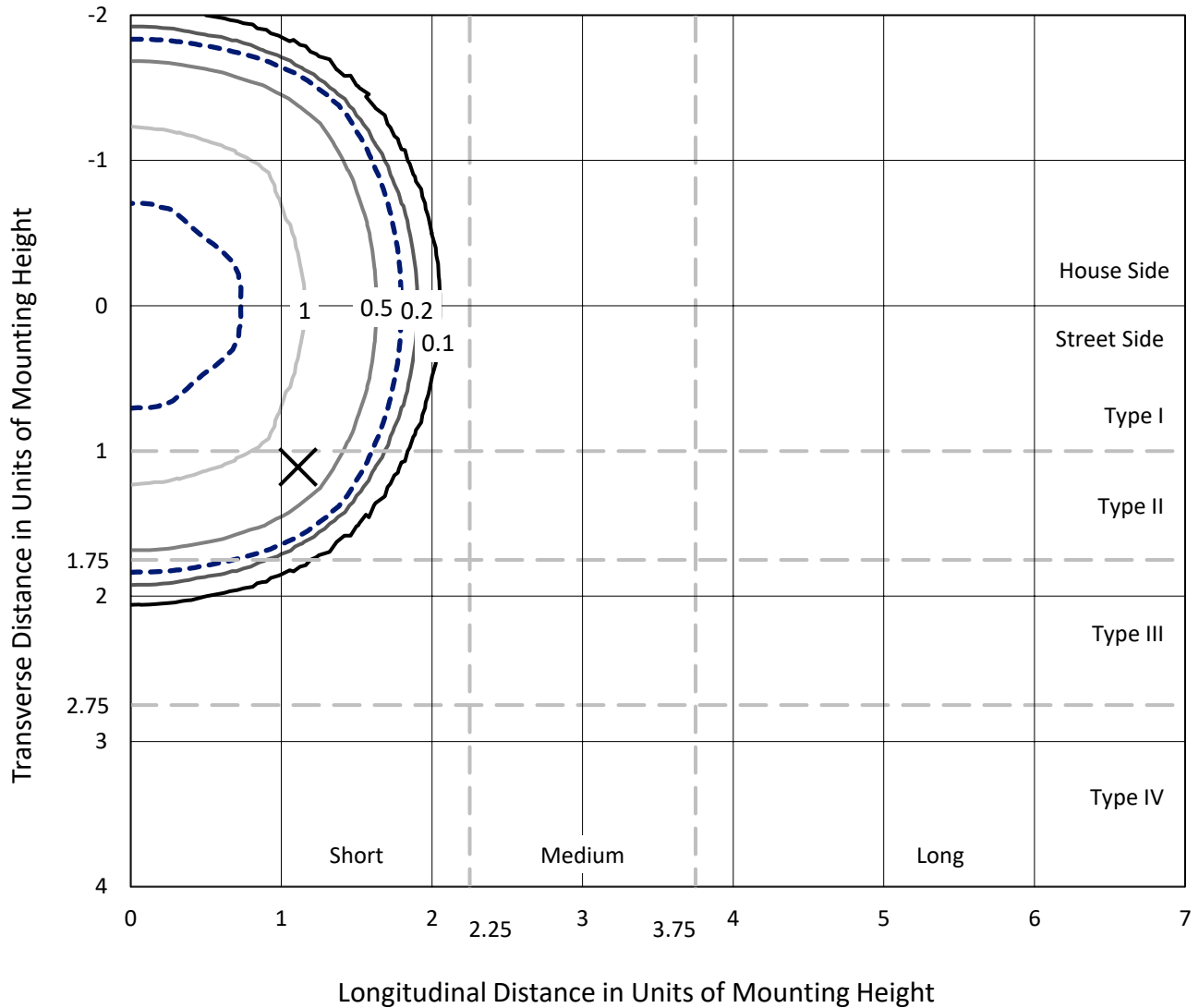
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

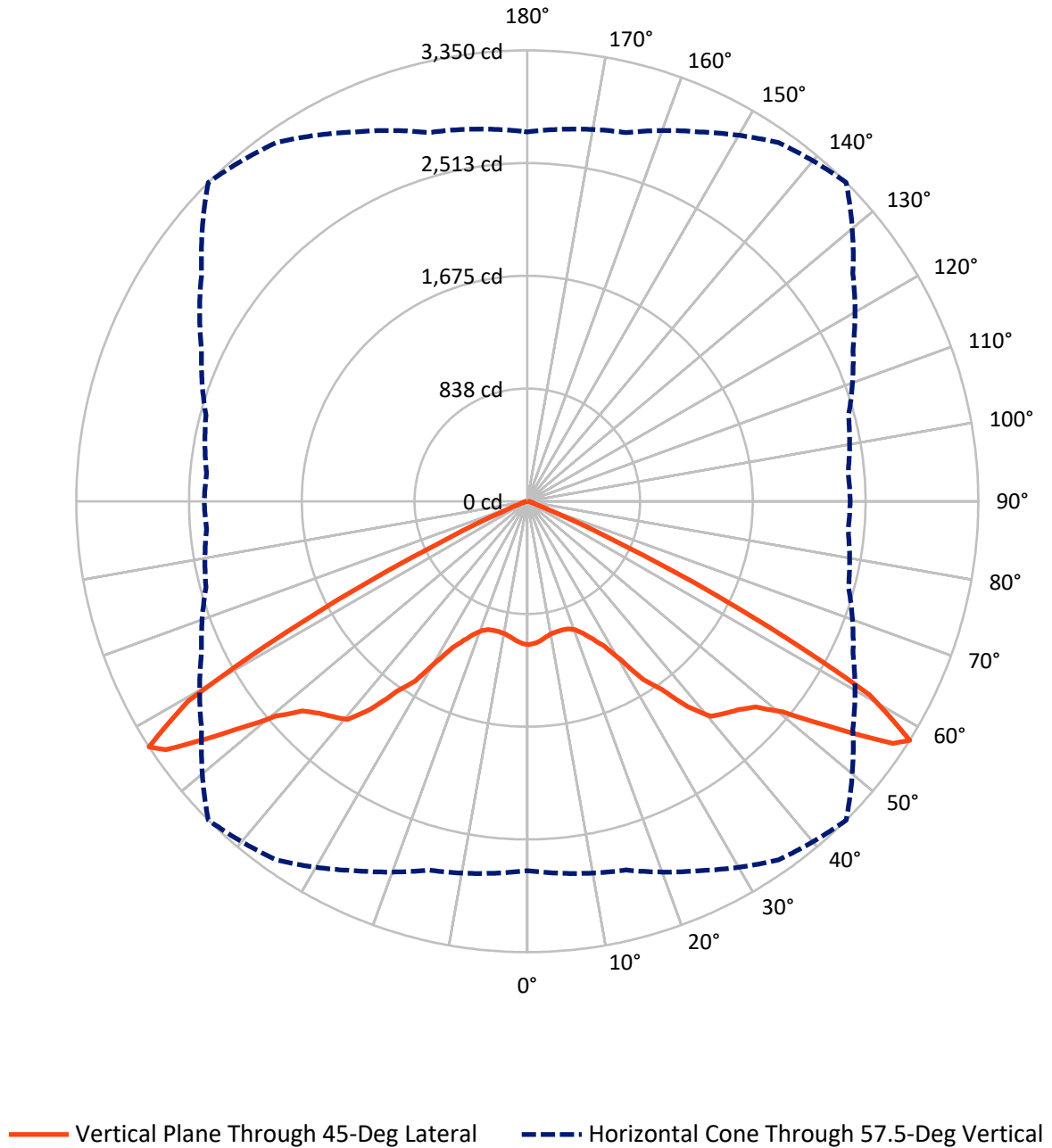
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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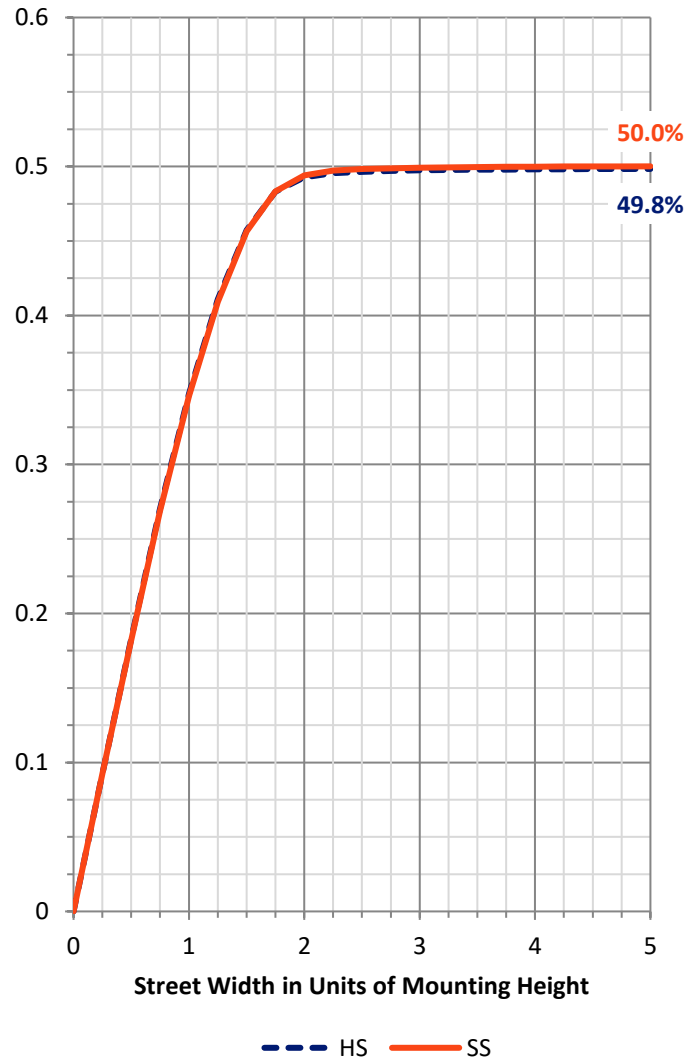
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.0	0.0	3435.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3435.0	0.0	3435.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6870.0	0.0	6870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.4
10°-20°	283.0	4.1
20°-30°	522.5	7.6
30°-40°	1027.5	15.0
40°-50°	1673.5	24.4
50°-60°	2386.6	34.7
60°-70°	826.3	12.0
70°-80°	44.3	0.6
80°-90°	8.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6870.0	100.0
0°-180°	6870.0	100.0

Coefficient of Utilization

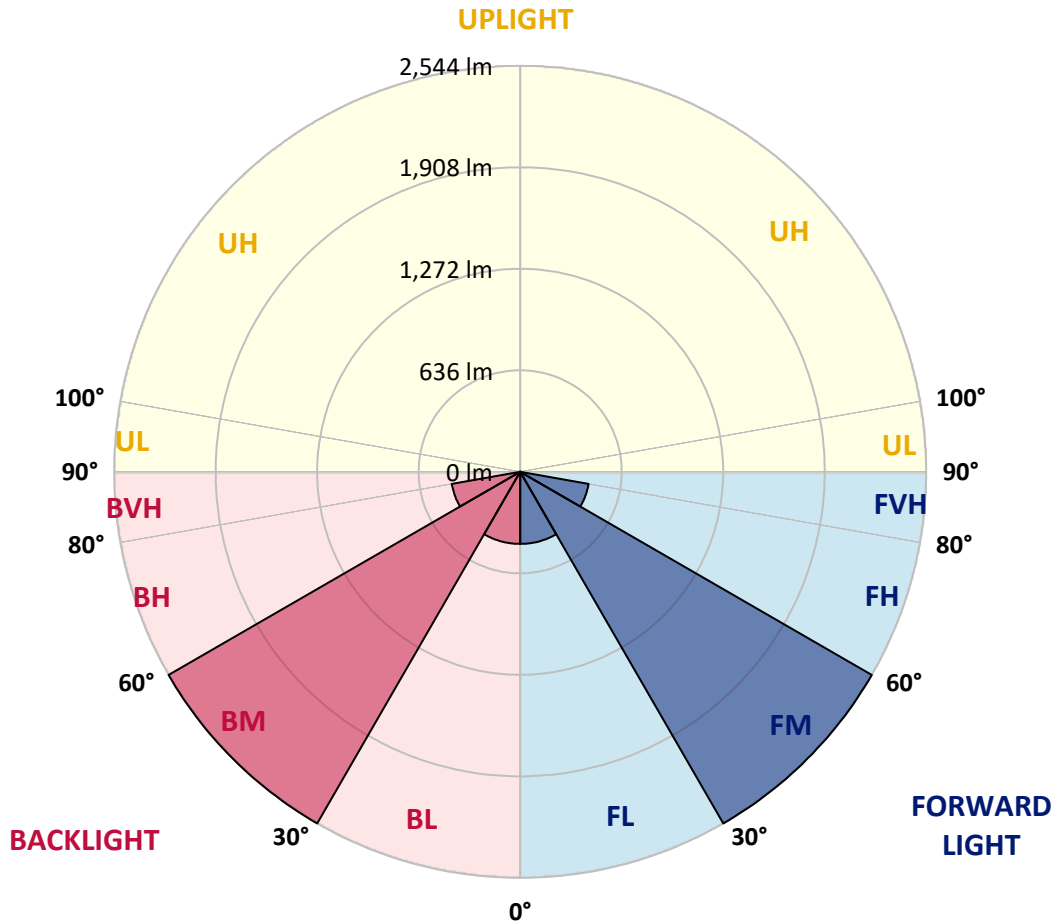


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.7	6.6			
FM (30°-60°)	2543.8	37.0			
FH (60°-80°)	435.3	6.3			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	451.7	6.6	B1/500		
BM (30°-60°)	2543.8	37.0	B3/5000		
BH (60°-80°)	435.3	6.3	B1/500		G0/660
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1065.6	1065.6	1065.6	1065.6	1065.6	1065.6	1065.6	1065.6	1065.6	1065.6	1065.6
2.5°	1062.7	1068.5	1061.3	1058.4	1057.0	1057.0	1052.7	1052.7	1051.3	1052.7	1047.0
5°	1045.6	1051.3	1051.3	1049.9	1041.3	1039.8	1035.5	1032.7	1034.1	1028.4	1032.7
7.5°	1028.4	1032.7	1026.9	1025.5	1022.6	1016.9	1015.5	1002.6	1004.0	1004.0	1006.9
10°	1025.5	1024.1	1015.5	1008.3	999.7	998.3	994.0	991.1	991.1	989.7	994.0
12.5°	1025.5	1018.3	1016.9	1001.2	986.8	992.6	981.1	973.9	984.0	986.8	992.6
15°	1024.1	1031.2	1006.9	999.7	989.7	991.1	981.1	973.9	979.7	982.5	986.8
17.5°	1032.7	1028.4	1021.2	1006.9	1002.6	996.9	984.0	978.2	978.2	985.4	986.8
20°	1055.6	1044.1	1029.8	1022.6	1026.9	1019.8	1004.0	982.5	988.3	994.0	998.3
22.5°	1077.1	1068.5	1058.4	1054.2	1078.5	1067.0	1039.8	1015.5	1006.9	1016.9	1024.1
25°	1118.6	1118.6	1100.0	1105.7	1132.9	1134.4	1102.8	1059.9	1054.2	1058.4	1061.3
27.5°	1203.1	1207.4	1191.6	1197.4	1208.8	1218.9	1191.6	1155.8	1143.0	1141.5	1145.8
30°	1294.8	1303.4	1301.9	1326.3	1359.2	1365.0	1324.8	1266.1	1227.5	1220.3	1226.0
32.5°	1415.1	1419.4	1416.5	1445.2	1534.0	1575.5	1470.9	1387.9	1336.3	1349.2	1336.3
35°	1641.4	1637.1	1605.6	1611.3	1684.3	1714.4	1614.2	1561.2	1536.8	1562.6	1556.9
37.5°	1836.2	1820.4	1794.6	1831.9	1907.8	1935.0	1830.4	1737.3	1692.9	1735.9	1754.5
40°	2000.9	1960.8	1925.0	1962.2	2063.9	2101.1	1947.9	1872.0	1854.8	1886.3	1926.4
42.5°	2139.8	2114.0	2066.8	2069.6	2136.9	2154.1	2031.0	1986.6	1969.4	2019.5	2039.6
45°	2238.6	2214.3	2169.9	2167.0	2218.6	2207.1	2096.8	2066.8	2076.8	2109.7	2119.8
47.5°	2288.8	2301.7	2275.9	2283.0	2310.3	2283.0	2195.7	2195.7	2172.8	2192.8	2182.8
50°	2433.4	2393.3	2426.3	2426.3	2454.9	2457.8	2370.4	2338.9	2277.3	2242.9	2242.9
52.5°	2602.4	2605.3	2618.2	2665.5	2714.2	2755.7	2631.1	2496.4	2393.3	2348.9	2343.2
55°	2741.4	2770.0	2821.6	2910.4	3050.7	3108.0	2893.2	2652.6	2526.5	2457.8	2443.5
56°	2817.3	2790.1	2878.9	3000.6	3183.9	3258.4	2936.2	2684.1	2545.1	2467.8	2466.4
57.5°	2744.2	2774.3	2835.9	3027.8	3252.7	3350.1	2951.9	2669.8	2470.7	2391.9	2399.1
60°	2167.0	2195.7	2278.7	2493.6	2845.9	2921.8	2497.9	2201.4	2023.8	1910.6	1912.1
62.5°	1226.0	1247.5	1312.0	1511.0	1730.2	1803.2	1556.9	1359.2	1236.0	1173.0	1153.0
65°	451.2	442.6	452.6	554.3	688.9	750.5	647.4	547.1	482.7	459.8	451.2
67.5°	169.0	156.1	146.1	156.1	196.2	207.7	190.5	159.0	149.0	153.3	156.1
70°	104.6	98.8	78.8	74.5	73.0	71.6	75.9	80.2	91.7	107.4	110.3
72.5°	73.0	68.7	55.9	53.0	50.1	48.7	55.9	61.6	71.6	83.1	84.5
75°	28.6	30.1	28.6	31.5	32.9	34.4	40.1	44.4	48.7	48.7	47.3
77.5°	5.7	5.7	8.6	11.5	14.3	18.6	27.2	31.5	32.9	31.5	27.2
80°	0.0	0.0	2.9	5.7	11.5	15.8	24.3	27.2	30.1	27.2	21.5
82.5°	0.0	0.0	2.9	7.2	11.5	14.3	22.9	28.6	32.9	30.1	22.9
85°	0.0	0.0	2.9	5.7	8.6	10.0	10.0	7.2	7.2	4.3	2.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)